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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/724,622	11/28/2000	Irwin J. Singer	KCC-15,287	8443
75	90 08/27/2002			
Maxwell J. Petersen			EXAMINER	
Pauley Petersen Suite 365	•		WACHTEL, ALEXIS A	
2800 West Higgins Road Hoffman Estates, IL 60195			ART UNIT	PAPER NUMBER
	-,		1771	7
			DATE MAILED: 08/27/2002	9

Please find below and/or attached an Office communication concerning this application or proceeding.

		-	AS~9			
, .	Application No.	Applicant(s)				
	09/724,622	SINGER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Alexis Wachtel	1771				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet v	with the correspondence addre	ess			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a within the statutory minimum of the vill apply and will expire SIX (6) MC. cause the application to become A	a reply be timely filed nirty (30) days will be considered timely. NTHS from the mailing date of this comm ABANDONED (35 U.S.C. & 133)	nunication.			
1) Responsive to communication(s) filed on 28 /	<u> Vovember 2000</u> .					
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-final.					
3) Since this application is in condition for alloward closed in accordance with the practice under a Disposition of Claims	ance except for formal m <i>Ex parte Quayle</i> , 1935 C	atters, prosecution as to the r C.D. 11, 453 O.G. 213.	nerits is			
4) ☐ Claim(s) <u>1-26</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.	_					
6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers	4					
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by	the Examiner.				
Applicant may not request that any objection to the						
11)☐ The proposed drawing correction filed on		disapproved by the Examiner.				
If approved, corrected drawings are required in rep						
12) The oath or declaration is objected to by the Ex	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C	. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents						
2. Certified copies of the priority documents						
3. ☐ Copies of the certified copies of the prior application from the International But* See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).		age			
14)☐ Acknowledgment is made of a claim for domestic			oplication).			
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti	visional application has I	been received.	,,			
Attachment(s)	, , , , , , , , , , , , , , , , , , , ,	- gg - ==				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.3	5) Notice of	v Summary (PTO-413) Paper No(s). f Informal Patent Application (PTO-1				
S Patent and Trademark Office						

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Detailed Action

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-26 rejected under 35 U.S.C. 103(a) as being unpatentable over US 4,714,647 to Shipp, Jr. et al and US 5,817,584 to Singer et al.

Shipp, Jr. et al is directed to a filter medium formed by sequentially depositing layers of meltblown thermoplastic fibers having the same composition but different sizes onto a collector. The resulting laminate web has a fiber size gradient so that large particulate can be trapped across the filter's depth without prematurely plugging the fine fiber, high efficiency layers (Abstract). Meltblown webs of microfibers are useful as filter media, absorbent materials, moisture barriers, insulators and wipes (Col 1, lines 32-35). It is known to use fine fibers having a diameter of from 0.5 to 10 microns and larger fibers having a diameter of greater than 10 microns to make a gradient depth filter (Col 2, lines 64-68, Col 3, lines 1-12). Another embodiment contemplates composite webs in which the fiber size gradient may increase or decrease across the full depth of the composite web (Col 7, lines 15-27).

Shipp, Jr. et al fails to teach sandwiching the meltblown web between two spun bond nonwoven webs. Singer et al is directed to nonwovens used as filters (Col 1, lines

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5-10) that have an SMS spunbond/meltblown/spunbond configuration (CoI 1, lines 21-25). Examiner notes that the meltblown web in filters is the filtering medium and and lacks durability without reinforcing means such as afforded by spunbonded webs. In view of this teaching it would have been obvious for one of ordinary skill in the art at the time the invention was made to have employed and SMS construction for reinforcing the meltblown web of Shipp, Jr. et al motivated by the desire to obtain a filter that is durable.

Regarding claims 9,10,12 and 13, although the claimed permeability and opacity are not explicitly taught by Singer et al or EP 0729375 B1, it is reasonable to presume that said limitations would be met by the combination of the two references. Support for said presumption is found in the use of similar materials (i.e. gradient sized meltblown web sandwiched between two spubonded webs) and in the similar production steps (i.e.laminating spunbond webs to meltblown web) used to produce the SMS composite fabric. The burden is upon the applicant to prove otherwise.

Regarding claims 21-26, Applicant's diclosure discloses that known uses for SMS type laminates include medical gowns, drapes, garments, wraps, shoe covers and towels (Background of Invention, pp.2, Specification). In view of this teaching it would have been obvious for one of ordinary skill in the art at the time the invention was made to have used the SMS composite fabric of Singer et al and EP 0729375 B1 for the disclosed applications. One of ordinary skill in the art would have been motivated by the desire to use the SMS composite fabric in applications for which SMS fabrics are well suited.

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Alex Wachtel, whose number is (703)-306-0320. The Examiner can normally be reached Mondays-Fridays from 10:30am to 6:30pm.

If attempts to reach the Examiner by telephone are unsuccessful and the matter is urgent, the Examiner's supervisor, Mr. Terrel Morris, can be reached at (703) 308-2414. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

ELIZABETH M. COLE PRIMARY EXAMINER Page 4